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a first region comprising a domain of modified lattice structure positioned between said dipole and formed by said dipole propagating throughout the nanotube as a result of stress being applied to said nanotube; and

second and third regions each positioned on opposite sides relative to said first region, the second and third regions comprising lattice structure domains which differ from the domain of modified lattice structure in said first region such that said second and third regions possess a physical property different from the first region.

25. (New) An article of manufacture comprising the nanotube defined in Claim 24.

26. (New) A method of modifying a chemical functionality of a nanotube, said method comprising:

providing a nanotube having a dipole of dislocation cores present therein and a reactive component;

reacting the reactive component and the nanotube such that the chemical functionality of the nanotube is altered.

27. (New) The method according to Claim 26, wherein the reactive component reacts with at least one of the dislocation cores.

Please cancel Claims 1-23 without prejudice or disclaimer thereto.

Remarks

The present application is a divisional application as described hereinabove. Applicant wishes to pursue newly-drafted Claims 24-27 which